	Application No.	Applicant(s)	MF
	09/937,599	NAKAHAMA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Ling-Siu Choi	1713	
The MAILING DATE of this communication apperaisable of the communication apperaisable of the communication apperaisable of the Discourage of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commedites. This application is	in this application. If not included nunication will be mailed in due coul	rse. THIS
1. This communication is responsive to the Amendment filed	<u>07/06/04</u> .		
2. The allowed claim(s) is/are 10-18.			
3. $igotimes$ The drawings filed on 28 September 2001 are accepted by	the Examiner.		
4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.  A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6.  CORRECTED DRAWINGS ( as "replacement sheets") mus (a)  including changes required by the Notice of Draftspers 1)  hereto or 2)  to Paper No./Mail Date  (b)  including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the company of the proper No./Mail Date  DEPOSIT OF and/or INFORMATION about the deposattached Examiner's comment regarding REQUIREMENT	been received.  been received in Application cuments have been received of this communication to fill ENT of this application.  itted. Note the attached EX es reason(s) why the oath of the besubmitted.  son's Patent Drawing Review.  Amendment / Comment of the header according to 37 Cesit of BIOLOGICAL MAT	on No  ed in this national stage application  e a reply complying with the require  CAMINER'S AMENDMENT or NOTI  or declaration is deficient.  ew ( PTO-948) attached  or in the Office action of  the drawings in the front (not the backer 1.121(d).  TERIAL must be submitted. Note	ements CE OF
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview S Paper No 7. ☑ Examiner's	nformal Patent Application (PTO-15 Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowar 	

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## **DETAILED ACTION**

1. This Office Action is in response to the Amendment filed July 6, 2004. Claims 1-18 are now pending, wherein claims 1-9 were withdrawn from consideration due to the Restriction Requirement.

## Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Eugene Perez on August 19, 2004.

3. The application has been amended as follows:

Cancel claims 1-9 without prejudice and disclaimer.

## Allowable Subject Matter

4. Claims 10-18 are allowed.

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5. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest references: Nakashima et al. (US 4,076,220).

The present invention relates to a kneadning status **evaluation method** for a rubber composition containing a rubber and a filler, comprising the steps of

5	meauring	a complex viscosity coefficient (η*) under at least two different temperatures
6	calculating	a kneading status monitor index (M) according to   η*   = A exp(-M/RT)
7	comparing the calculated kneading status monitoring index (M) with a predetermined target kneading status monitor index (P)	

(summary of claim 10)

Nakashima et al. disclose a method of mixing and kneading control of a rubber kneader in order to achieve an uniform plasticity and dispersibility of the additive to enhance the quality of the individual finished tire, the method comprising the steps of detecting the plasticity of a raw material after the rubber raw material and additives are put into a receptacle of the rubber kneader and controlling total energy spent by the electric motor of the rubber kneader in correspondence with the detected plasticity of the rubber raw material (abstract; col. 1, lines 21-25). Nakashima et al. further disclose that the plasticity of the kneaded rubber is related to the total electric energy spent during the kneading and mixing operation by the equation of  $ML = F_1(W,T)$ , wherein ML denotes the plasticity of the kneading rubber; W total electric energy spent during the kneading and mixing operation; T temperature of the kneaded rubber

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during the kneading and mixing operation (col. 2, lines 66-68; col. 3, lines 1-7). It is noted that ML reads on viscosity coeffficient; W kneading status monitor index; T measuring temperature. However, Nakashima et al. do not teach or fairly suggest a kneading status evaluation method

comprising a kneading status monitor index calculation step using the specific function.

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reached on 571-272-1114.

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Ling-Siu Choi, Ph.D.

August 18, 2004